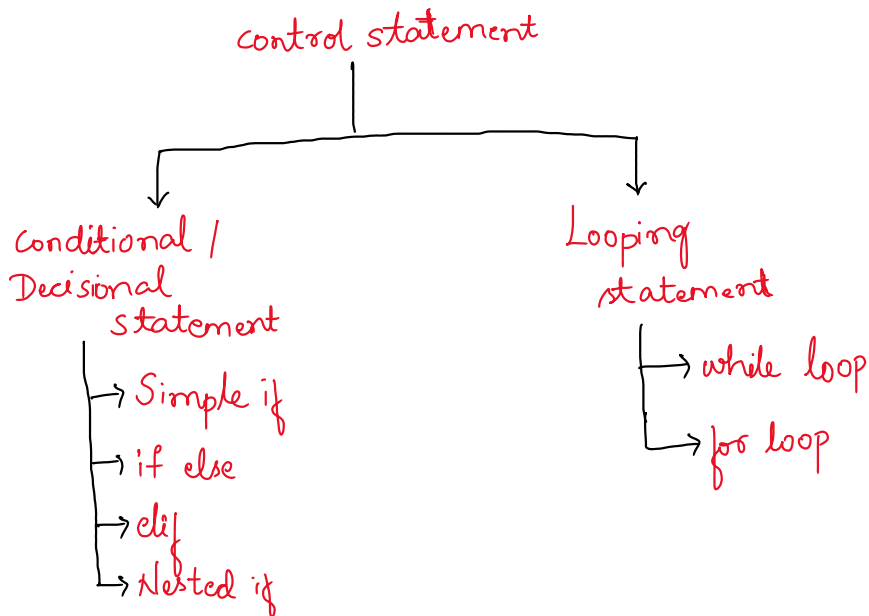


Day-16

Control Statement:

--- It is used to control the flow of execution.

Types:



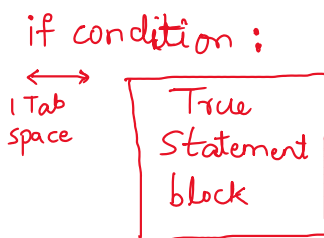
Conditional Statement:

--- It is used to control the flow of execution based on conditions.

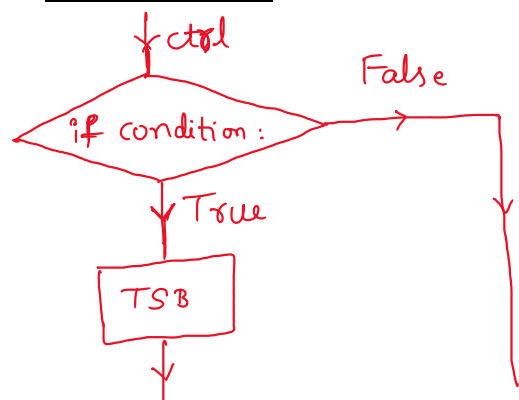
1) Simple if:

--- It is a keyword which is used to check the condition and it will execute the statement block if the condition is True or else it will ignore the statement block.

Syntax:



Flow diagram:



Programs:

Simple if

WAP to check whether the number is even.

'''

```
n = int(input('Enter the number: '))
if n%2 == 0:
    print('number is even') """
```

```
# WAP to check whether the string has exactly 5 characters in it.
"""
```

```
s = input('Enter the string: ')
if len(s)==5:
    print('string has exactly 5 characters in it')"""
```

```
# WAP to check whether the number is greater than 200.
"""
```

```
n = int(input('Enter the number: '))
if n>200:
    print('number is greater than 200')"""
```

```
# WAP to print the square of the number only if it is multiple of 3.
"""
```

```
n = int(input('Enter the number: '))
if n%3==0:
    print('square of the number is: ',n**2)"""
```

```
# WAP to check whether the number is 2 digit number.
"""
```

```
n = int(input('Enter the number: '))
if n>=10 and n<=99:
    print('number is 2 digit number')"""
```

```
# WAP to check if the character is Uppercase.
"""
```

```
ch = input('Enter a character: ')
if 'A'<= ch <= 'Z':
    print('character is Uppercase')"""
```

2) if else:

--- It is used to check the condition and it will execute the True Statement block if the condition is True else it will execute the False Statement block.

Syntax:

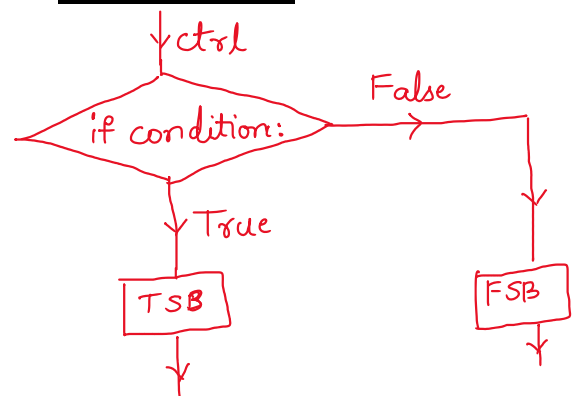
if condition :



else:



Flow diagram:



Programs:

if else

WAP to check the given data is float or not.

'''

data = eval(input('Enter the data: '))

if type(data)==float:

print('given data is float')

else:

print('given data is not float')'''

WAP to check whether the string is palindrome or not.

'''

s = input('Enter the string: ')

if s==s[::-1]:

print('string is palindrome')

else:

print('string is not palindrome')'''

WAP to check whether the given character is vowel or not.

'''

ch = input('Enter the character: ')

if ch in 'aeiouAEIOU':

print('given character is vowel')

else:

print('given character is not vowel')'''

WAP to check whether the given data is SVDT or not.

'''

data = eval(input('Enter the data: '))

if type(data) in [int, float, complex, bool]:

print('given data is SVDT')

else:

print('given data is not SVDT')'''

WAP to check whether the given integer is 3 digit number or not.

'''

n = abs(int(input('Enter the number: ')))

if 100<=n<=999:

print('given integer is 3 digit number')

else:

print('given integer is not 3 digit number')'''

Note:

abs (absolute function) - It will convert the negative numbers into positive numbers. If we already have positive number it will keep as it is.